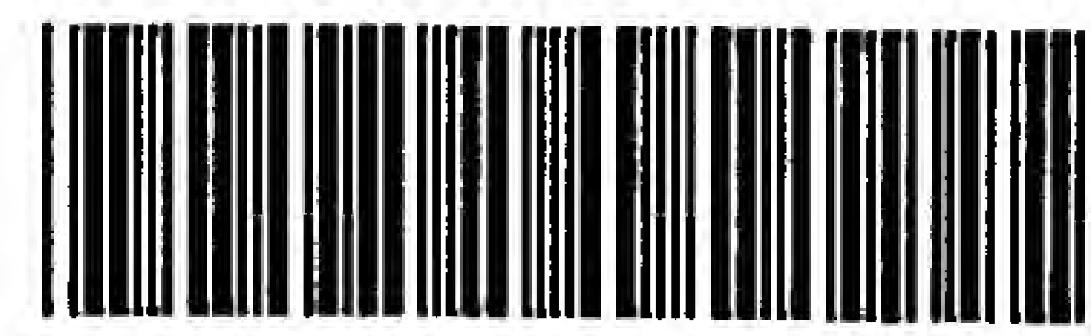


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/336,091 B  
Source: JFW16  
Date Processed by STIC: 09/19/2005

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005

TIME: 10:22:25

Input Set : A:\L0461-70063US00.txt

Output Set: N:\CRF4\09192005\I336091B.raw

2 <110> APPLICANT: Van Snick, Jacques  
 3       Lethe, Bernard  
 4       Chaux, Pascal  
 5       Boon-Falleur, Thierry  
 6       van der Bruggen, Pierre  
 W--> 7 <120> TITLE OF INVENTION: MAGE-A1 PEPTIDES PRESENTED BY HLA CLASS  
 W--> 8       II MOLECULES  
 W--> 9 <130> FILE REFERENCE: L0461.70063US00  
 W--> 10 <140> CURRENT APPLICATION NUMBER: US 09/336,091B  
 11 <141> CURRENT FILING DATE: 1999-06-18  
 13 <160> NUMBER OF SEQ ID NOS: 73  
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 W--> 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 1624  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: Homo sapiens  
 W--> 19 <400> SEQUENCE: 1  
 20 gtttcaggg gacaggccaa cccagaggac aggattccct ggaggccaca gaggagcacc       60  
 21 aaggagaaga tctgcctgtg ggtcttcatt gcccgactcc tgcccacact cctgcctgct       120  
 22 gccctgacga gagtcatcat gtctctttag cagaggagtc tgcactgcaa gcctgaggaa       180  
 23 gccctttagg cccaaacaaga ggcctgggc ctgggtgtg tgcaggctgc cacctcctcc       240  
 24 tcctctcctc tggccttggg caccctggag gaggtgcca ctgctgggtc aacagatcct       300  
 25 cccagagtc ctcaaggagc ctccgcctt cccactacca tcaacttcac tcgacagagg       360  
 26 caaccaggatg agggttccag cagccgtgaa gaggaggggc caagcacctc ttgtatcctg       420  
 27 gagtccttgc tccgagcagt aatcaactaag aaggtggctg atttgggtgg ttttctgctc       480  
 28 ctcaaatac gagccaggga gccagtcaca aaggcagaaa tgctggagag tgtcatcaaa       540  
 29 aattacaagc actgtttcc ttagatcttc ggcaaagcct ctgagtcctt gcagctggtc       600  
 30 tttggcattt acgtgaagga agcagacccc accggccact cctatgtcct tgtcacctgc       660  
 31 ctaggtctct cctatgtatgg cctgctgggt gataatcaga tcatgccaa gacaggctc       720  
 32 ctgataatttgc tcctggcat gattgcaatg gagggcggcc atgctcctga ggaggaaatc       780  
 33 tggaggagc tgagtgtat ggaggtgtat gatgggaggg agcacagtgc ctatggggag       840  
 34 cccaggaagc tgctcacca agatttggtg caggaaaagt acctggagta ccggcagggtg       900  
 35 ccggacagtgc atcccgacg ctatgagttc ctgtgggtc caagggccct cgctgaaacc       960  
 36 agctatgtga aagtccatttga gtatgtgatc aaggtcagtgc caagagttcg cttttcttc       1020  
 37 ccatccctgc gtgaagcagc tttgagagag gaggaagagg gaggctgagc atgagttgca       1080  
 38 gccaaggccaa gtggggagggg gactggccaa gtgcacccctc cagggccgag tccagcagct       1140  
 39 tccctgcct cgtgtacat gaggcccatt cttcaactctg aagagagcgg tcagtgttct       1200  
 40 cagtagtagg tttctgttct attgggtgac ttggagattt atctttgttc tctttggaa       1260  
 41 ttgttcaat gttttttttt aaggatggt tgaatgaact tcagcatcca agtttatgaa       1320  
 42 tgacagcagt cacacagtgc tggatata gtttaagggt aagagtcttgc tggtttattc       1380  
 43 agattggaa atccattcta ttttgtaat tggataata acagcagtgg aataagtact       1440  
 44 tagaaatgtg aaaaatgagc agtaaaatag atgagataaa gaactaaaga aattaagaga       1500  
 45 tagcaatttgc ttgccttata ctcagtcata ttctgtaaaa ttttaaaga tatatgcata       1560

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005  
TIME: 10:22:25

Input Set : A:\L0461-70063US00.txt  
Output Set: N:\CRF4\09192005\I336091B.raw

46 cctggatttc ctggcttct ttgagaatgt aagagaaaatt aaatctgaat aaagaattct 1620  
 47 tcct 1624  
 48 <210> SEQ ID NO: 2  
 49 <211> LENGTH: 309  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: Homo sapiens  
 W--> 52 <400> SEQUENCE: 2  
 53 Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu  
 54 1 5 10 15  
 55 Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr  
 56 20 25 30  
 57 Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr  
 58 35 40 45  
 59 Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe  
 60 50 55 60  
 61 Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser  
 62 65 70 75 80  
 63 Ser Ser Arg Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser  
 64 85 90 95  
 65 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe  
 66 100 105 110  
 67 Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
 68 115 120 125  
 69 Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe  
 70 130 135 140  
 71 Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys  
 72 145 150 155 160  
 73 Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly  
 74 165 170 175  
 75 Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr  
 76 180 185 190  
 77 Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His  
 78 195 200 205  
 79 Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr  
 80 210 215 220  
 81 Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr  
 82 225 230 235 240  
 83 Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp  
 84 245 250 255  
 85 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala  
 86 260 265 270  
 87 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
 88 275 280 285  
 89 Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
 90 290 295 300  
 91 Glu Glu Glu Gly Val  
 92 305  
 93 <210> SEQ ID NO: 3  
 94 <211> LENGTH: 16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005

TIME: 10:22:25

Input Set : A:\L0461-70063US00.txt

Output Set: N:\CRF4\09192005\I336091B.raw

95 <212> TYPE: PRT  
96 <213> ORGANISM: Homo sapiens  
W--> 97 <400> SEQUENCE: 3  
98 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe  
99 1 5 10 15  
100 <210> SEQ ID NO: 4  
101 <211> LENGTH: 16  
102 <212> TYPE: PRT  
103 <213> ORGANISM: Homo sapiens  
W--> 104 <400> SEQUENCE: 4  
105 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser  
106 1 5 10 15  
107 <210> SEQ ID NO: 5  
108 <211> LENGTH: 12  
109 <212> TYPE: PRT  
110 <213> ORGANISM: Homo sapiens  
W--> 111 <400> SEQUENCE: 5  
112 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile  
113 1 5 10  
114 <210> SEQ ID NO: 6  
115 <211> LENGTH: 12  
116 <212> TYPE: PRT  
117 <213> ORGANISM: Homo sapiens  
W--> 118 <400> SEQUENCE: 6  
119 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
120 1 5 10  
121 <210> SEQ ID NO: 7  
122 <211> LENGTH: 12  
123 <212> TYPE: PRT  
124 <213> ORGANISM: Homo sapiens  
W--> 125 <400> SEQUENCE: 7  
126 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe  
127 1 5 10  
128 <210> SEQ ID NO: 8  
129 <211> LENGTH: 12  
130 <212> TYPE: PRT  
131 <213> ORGANISM: Homo sapiens  
W--> 132 <400> SEQUENCE: 8  
133 Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser  
134 1 5 10  
135 <210> SEQ ID NO: 9  
136 <211> LENGTH: 12  
137 <212> TYPE: PRT  
138 <213> ORGANISM: Homo sapiens  
W--> 139 <400> SEQUENCE: 9  
140 Arg Val Arg Phe Phe Pro Ser Leu Arg Glu Ala  
141 1 5 10  
142 <210> SEQ ID NO: 10  
143 <211> LENGTH: 12

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005

TIME: 10:22:25

Input Set : A:\L0461-70063US00.txt  
 Output Set: N:\CRF4\09192005\I336091B.raw

144 <212> TYPE: PRT  
 145 <213> ORGANISM: Homo sapiens  
 W--> 146 <400> SEQUENCE: 10  
 147 Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
 148 1 5 10  
 149 <210> SEQ ID NO: 11  
 150 <211> LENGTH: 13  
 151 <212> TYPE: PRT  
 152 <213> ORGANISM: Homo sapiens  
 W--> 153 <400> SEQUENCE: 11  
 154 Leu Arg Glu Ala Ala Leu Arg Glu Glu Glu Gly Val  
 155 1 5 10  
 156 <210> SEQ ID NO: 12  
 157 <211> LENGTH: 36  
 158 <212> TYPE: DNA  
 159 <213> ORGANISM: Homo sapiens  
 W--> 160 <400> SEQUENCE: 12  
 161 gagtatgtga tcaaggtcag tgcaagagtt cgcttt 36  
 162 <210> SEQ ID NO: 13  
 163 <211> LENGTH: 16  
 164 <212> TYPE: PRT  
 165 <213> ORGANISM: Homo sapiens  
 W--> 166 <400> SEQUENCE: 13  
 167 Tyr Val Lys Val Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg  
 168 1 5 10 15  
 169 <210> SEQ ID NO: 14  
 170 <211> LENGTH: 16  
 171 <212> TYPE: PRT  
 172 <213> ORGANISM: Homo sapiens  
 W--> 173 <400> SEQUENCE: 14  
 174 Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg Ile Ala Tyr Pro  
 175 1 5 10 15  
 176 <210> SEQ ID NO: 15  
 177 <211> LENGTH: 9  
 178 <212> TYPE: PRT  
 179 <213> ORGANISM: Homo sapiens  
 W--> 180 <400> SEQUENCE: 15  
 181 Glu Ala Asp Pro Thr Gly His Ser Tyr  
 182 1 5  
 183 <210> SEQ ID NO: 16  
 184 <211> LENGTH: 9  
 185 <212> TYPE: PRT  
 186 <213> ORGANISM: Homo sapiens  
 W--> 187 <400> SEQUENCE: 16  
 188 Ser Leu Phe Arg Ala Val Ile Thr Lys  
 189 1 5  
 190 <210> SEQ ID NO: 17  
 191 <211> LENGTH: 9  
 192 <212> TYPE: PRT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005  
TIME: 10:22:25

Input Set : A:\L0461-70063US00.txt  
Output Set: N:\CRF4\09192005\I336091B.raw

193 <213> ORGANISM: Homo sapiens  
W--> 194 <400> SEQUENCE: 17  
195 Asn Tyr Lys His Cys Phe Pro Glu Ile  
196 1 5  
197 <210> SEQ ID NO: 18  
198 <211> LENGTH: 10  
199 <212> TYPE: PRT  
200 <213> ORGANISM: Homo sapiens  
W--> 201 <400> SEQUENCE: 18  
202 Glu Val Tyr Asp Gly Arg Glu His Ser Ala  
203 1 5 10  
204 <210> SEQ ID NO: 19  
205 <211> LENGTH: 10  
206 <212> TYPE: PRT  
207 <213> ORGANISM: Homo sapiens  
W--> 208 <400> SEQUENCE: 19  
209 Arg Glu Pro Val Thr Lys Ala Glu Met Leu  
210 1 5 10  
211 <210> SEQ ID NO: 20  
212 <211> LENGTH: 9  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Homo sapiens  
W--> 215 <400> SEQUENCE: 20  
216 Asp Pro Ala Arg Tyr Glu Phe Leu Trp  
217 1 5  
218 <210> SEQ ID NO: 21  
219 <211> LENGTH: 9  
220 <212> TYPE: PRT  
221 <213> ORGANISM: Homo sapiens  
W--> 222 <400> SEQUENCE: 21  
223 Ser Ala Phe Pro Thr Thr Ile Asn Phe  
224 1 5  
225 <210> SEQ ID NO: 22  
226 <211> LENGTH: 9  
227 <212> TYPE: PRT  
228 <213> ORGANISM: Homo sapiens  
W--> 229 <400> SEQUENCE: 22  
230 Ser Ala Tyr Gly Glu Pro Arg Lys Leu  
231 1 5  
232 <210> SEQ ID NO: 23  
233 <211> LENGTH: 14  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Homo sapiens  
W--> 236 <400> SEQUENCE: 23  
237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu  
238 1 5 10  
239 <210> SEQ ID NO: 24  
240 <211> LENGTH: 10  
241 <212> TYPE: PRT

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/336,091B

DATE: 09/19/2005

TIME: 10:22:26

Input Set : A:\L0461-70063US00.txt

Output Set: N:\CRF4\09192005\I336091B.raw

L:7 M:283 W: Missing Blank Line separator, <120> field identifier  
L:9 M:283 W: Missing Blank Line separator, <130> field identifier  
L:10 M:283 W: Missing Blank Line separator, <140> field identifier  
L:15 M:283 W: Missing Blank Line separator, <210> field identifier  
L:19 M:283 W: Missing Blank Line separator, <400> field identifier  
L:52 M:283 W: Missing Blank Line separator, <400> field identifier  
L:97 M:283 W: Missing Blank Line separator, <400> field identifier  
L:104 M:283 W: Missing Blank Line separator, <400> field identifier  
L:111 M:283 W: Missing Blank Line separator, <400> field identifier  
L:118 M:283 W: Missing Blank Line separator, <400> field identifier  
L:125 M:283 W: Missing Blank Line separator, <400> field identifier  
L:132 M:283 W: Missing Blank Line separator, <400> field identifier  
L:139 M:283 W: Missing Blank Line separator, <400> field identifier  
L:146 M:283 W: Missing Blank Line separator, <400> field identifier  
L:153 M:283 W: Missing Blank Line separator, <400> field identifier  
L:160 M:283 W: Missing Blank Line separator, <400> field identifier  
L:166 M:283 W: Missing Blank Line separator, <400> field identifier  
L:173 M:283 W: Missing Blank Line separator, <400> field identifier  
L:180 M:283 W: Missing Blank Line separator, <400> field identifier  
L:187 M:283 W: Missing Blank Line separator, <400> field identifier  
L:194 M:283 W: Missing Blank Line separator, <400> field identifier  
L:201 M:283 W: Missing Blank Line separator, <400> field identifier  
L:208 M:283 W: Missing Blank Line separator, <400> field identifier  
L:215 M:283 W: Missing Blank Line separator, <400> field identifier  
L:222 M:283 W: Missing Blank Line separator, <400> field identifier  
L:229 M:283 W: Missing Blank Line separator, <400> field identifier  
L:236 M:283 W: Missing Blank Line separator, <400> field identifier  
L:243 M:283 W: Missing Blank Line separator, <400> field identifier  
L:250 M:283 W: Missing Blank Line separator, <400> field identifier  
L:257 M:283 W: Missing Blank Line separator, <400> field identifier  
L:264 M:283 W: Missing Blank Line separator, <400> field identifier  
L:271 M:283 W: Missing Blank Line separator, <400> field identifier  
L:278 M:283 W: Missing Blank Line separator, <400> field identifier  
L:285 M:283 W: Missing Blank Line separator, <400> field identifier  
L:292 M:283 W: Missing Blank Line separator, <400> field identifier  
L:299 M:283 W: Missing Blank Line separator, <400> field identifier  
L:306 M:283 W: Missing Blank Line separator, <400> field identifier  
L:313 M:283 W: Missing Blank Line separator, <400> field identifier  
L:320 M:283 W: Missing Blank Line separator, <400> field identifier  
L:327 M:283 W: Missing Blank Line separator, <400> field identifier  
L:334 M:283 W: Missing Blank Line separator, <400> field identifier  
L:341 M:283 W: Missing Blank Line separator, <400> field identifier  
L:348 M:283 W: Missing Blank Line separator, <400> field identifier  
L:355 M:283 W: Missing Blank Line separator, <400> field identifier  
L:362 M:283 W: Missing Blank Line separator, <400> field identifier  
L:369 M:283 W: Missing Blank Line separator, <400> field identifier  
L:376 M:283 W: Missing Blank Line separator, <400> field identifier  
L:383 M:283 W: Missing Blank Line separator, <400> field identifier

**VERIFICATION SUMMARY** DATE: 09/19/2005  
PATENT APPLICATION: US/09/336,091B TIME: 10:22:26

Input Set : A:\L0461-70063US00.txt  
Output Set: N:\CRF4\09192005\I336091B.raw

L:390 M:283 W: Missing Blank Line separator, <400> field identifier  
L:397 M:283 W: Missing Blank Line separator, <400> field identifier